

ABSTRACT OF THE DISCLOSURE

An interleaver is disclosed for a turbo encoder in an UMTS. The interleaver includes a register for updating and registering a plurality of parameters for setting an
5 operating condition of the interleaver; a controller for generating a control signal for controlling an operation of the system by receiving the operating condition from the register; an address calculator for generating a finally interleaved address using an inter-row permutation pattern $T(j)$, an intra-row permutation pattern increment arrangement value $\text{incr}(j)$ and an intra-row permutation basic sequence $s(i)$, provided from the
10 register according to the control signal generated by the controller; and a data storage for sequentially storing data input to the turbo encoder and outputting data corresponding to the address generated by the address calculator.